Introduction

Welcome to the Upgrade

Welcome to NFC's new systems Upgrade. Combining the proven capabilities of NFC's existing systems with the ease of use of a Windows® environment and the ability to conduct business over a secured telecommunications network, this suite of programs provides you with the tools you'll need to accomplish your personnel, payroll, and administrative processing. This guide will discuss the System for Time and Attendance Reporting (STAR). Included in this upgrade are:

- **STAR:** The System for Time and Attendance Reporting
- **STAR Permissions:** The Permissions System (used with STAR)
- **STAR Employee:** The Employee System (used with STAR)

Ready . . . Set . . . Upgrade!

To provide its customers with the best possible service, NFC is compelled to change as technology changes. As with any change, making the transition from old to new systems can be challenging, which is why we've created this guide. In the sections to follow, we'll cover everything from obtaining the setup files to installing and using the applications.

Basic Steps to Connection

Below you'll find the recommended order for setting up and using these applications. Take a look at the list, then proceed to Getting Started.

- Ensure that site hardware meets minimum system requirements
- Establish a secured TCP/IP Link to NFC (if required by your transmission method)
- Request access to download client software
- Establish NFC Security access for transmission personnel
- Download the Upgrade software
- Install the Upgrade application
- Start the Upgrade application

Getting Started

NOTE: This chapter is intended to supplement information found in the online help, directives, online tutorials, and application-specific reference guides. For detailed information on using each application, please consult these resources. For more information on where to find application documentation and help, contact NFC Customer Support at (504) 255-5230.

Minimum System Requirements

Computer	486 Processor
Operating System	Windows 95/98 or NT 4.0 or higher
Monitor	SuperVGA display (w/ 800x600 resolution or greater)
Telecommunications	Secure connectivity with NFC (if required by your transmission method *)
Client Software	STAR software (STARSetup, PRMSSetup, MDAC, DCOM, etc.)
Miscellaneous	Mouse or other pointing device
Printer	Inkjet or Laser printer with at least 1MB memory

Hardware and telecommunications should be in place before contacting NFC for an ID and password to download the client software. Questions should be addressed to the customer's agency Information Technology (IT) personnel.

Setting the screen resolution to 800x600 will display the application screens in their entirety. Older monitors and video cards support only VGA (640x480) resolution. If the equipment being used does not support Super VGA (SVGA) resolutions (e.g., 800x600), the agency will need to upgrade to one with that capability. Check with agency IT personnel for more information on monitor compatibility.

For Transmission Purposes Only . . .

* Agencies wishing to transmit their T&A data files via TCP/IP file transfer must first establish a secured TCP/IP connection with NFC. For more information on securing your link, see Appendix A. To determine if your agency already has secured transmission procedures in place, contact your Customer Service Representative at NFC (504-255-5230).

Application Components

There are four components utilized to implement and operate STAR:

- STAR: Main Application
- STAR Employee: Employee System (used by the System Administrator)

- STAR Permissions: Permissions System (used by the System Administrator)
- Reports: Report Generator (used from within STAR Application)

Which Components Should I Install?

The answer to this question depends upon the individual's responsibilities. For *System Administrators*, the EMCP and PRMS components are required to establish system access and to setup general timekeeper information. For *Timekeepers*, only the STAR application client is required to accomplish day-to-day timekeeping tasks, including the printing of T&A reports.

All application's are available for the Administrator to install as needed. The STAR application client may be installed from the STARSetup.exe file. Both EMCP and PRMS may be installed from the PRMSSetup.exe file.

Special Consideration for Windows 95/98 Operating Systems

Because STAR relies on certain runtimes installed in the Windows environment, you will need to determine if one of two supplemental installation files is required. These files, mdac_typ.exe and dcom9X.exe, are included with STAR's distribution media. These files apply only to users running Windows 95 or 98 (NT systems come preloaded with the required ODBC components). If, upon launching STAR, you receive driver errors, you will need to install the supplemental file(s) as directed. Information on the versions of MDAC and DCOM used by NFC may be found in the Appendices. You may also consult the Glossary (see Microsoft® Data Access Components (MDAC) and Open Database Connectivity (ODBC)).

General Work Flow

- Agency System Administrator obtains application setup files.
- Agency System Administrator installs EMCP and PRMS on his/her PC.
- Using EMCP, Agency System Administrator establishes an employee record for each timekeeper.
- Using PRMS, Agency System Administrator establishes user IDs and user profiles for each timekeeper.
- If desired, System Administrator may create and modify master STARDB.mdb file for later distribution.
- Agency Security Officer sends NFC Security request for transmit access to NFC for each user with a Transmitter profile.
- Agency System Administrator installs STAR application using one of the installation scenarios provided below.
- Using STAR, Application Administrator establishes Contact Points and updates Tables.
- Using STAR, User Administrator assigns specific Contact Points to STAR users.
- Agency System Administrator copies the master STARDB.mdb file to c:\usdanfc\star on each workstation.
- Once NFC Security is established, users logon and begin using the STAR application.

Installation Scenarios

There are two recommended scenarios for implementing STAR at your agency:

- Scenario 1: Standalone (PC) Installation for Each User -- The administrator uses the STARSetup.exe file and Typical setup type to load the STAR application on the individual's PC. When installation is completed, all files required to run STAR reside on that machine.
- Scenario 2: LAN Installation of STAR Application / Hard Drive Installation of MDB file -- The administrator uses the STARSetup.exe file and Typical setup type to load the STAR application on a LAN Server. The administrator then uses the Compact setup type to load required files and registry entries on each individual PC. When installation is completed, program files required to operate the STAR application reside on the LAN server. The reports utility and the database containing employee and T&A data reside on the individuals' PCs.

These scenarios are discussed in detail in the section on installing software.

Summary

Now that you know how the different parts of STAR work together, you can gather the pieces you'll need to implement STAR at your agency by Downloading the Software. If you've already received the STAR software (via FTP, CD-ROM or diskette), you may skip ahead to Installing the Software.

Appendices

A. Connecting to NFC via TCP/IP: Listing of options and descriptions for the five methods of establishing secured TCP/IP Connection with NFC.

B. MDAC Reference: A resource for information on installation and troubleshooting of the MDAC setup.

C. DCOM95/98 Reference: A resource for information on installation and troubleshooting of the DCOM setup.

D. Links and Other Resources

APPENDIX A – Connecting to NFC via TCP/IP

Option A: Establishing a Firewall to Firewall Connection

- Create a virtual private network (VPN) between customer's firewall and NFC's IBM Firewall (Version 4.2)
  a. Obtain customer firewall type and version.
  b. Exchange IP addresses (Customer and NFC/ISSO)
     i. Establish valid host and port connection
     ii. Distinguish between Firewall IP addresses and Network addresses

c. Configure customer's Firewall and routing tables.
d. Update NFC's Firewall and routing tables.

- Coordinate TCP/IP Application Testing (ISSO)
  a. Establish test criteria
  b. Set testing dates
  c. Test and evaluate customer's ability to reach the NFC sign-on screen (TN3270) or EARN main screen (CoolGen app), and ability to complete a File Transfer to NFC's Mainframe.

- Coordinate NFC Application Testing (IC)
  a. Establish test criteria
  b. Set testing dates
  c. Test and evaluate operation of specific applications (EARN, IRIS, Travel) and telecommunication clients (TN3270, FTP, VPS Print, CoolGen) via Firewall to Firewall connection.

- Implement Into Production

Option B: Establishing a Gateway to Gateway Connection

- Create a VPN between customer's network and NFC's network terminating at NFC's TimeStep/PERMIT Gateway (Version 1.10)
  a. Procure/install TimeStep/PERMIT Gateway on Customer's network
  b. Exchange IP addresses (Customer and NFC/ISSO)
     i. Establish valid host and port connection
     ii. Distinguish between Firewall IP addresses and Network addresses
  c. Configure customer's PERMIT Gateway, firewall, and routing tables.
  d. Update NFC's PERMIT Gateway, firewall, and routing tables.

- Coordinate TCP/IP Application Testing (ISSO)
  a. Establish test criteria
  b. Set testing dates
  c. Test and evaluate customer's ability to reach the NFC sign-on screen (TN3270) or EARN main screen (CoolGen app), and ability to complete a File Transfer to NFC's Mainframe.

- Coordinate NFC Application Testing (IC)
  a. Establish test criteria
  b. Set testing dates
  c. Test and evaluate operation of specific applications (EARN, IRIS, Travel) and telecommunication clients (TN3270, FTP, VPS Print, CoolGen) via Gateway to Gateway connection.

- Implement Into Production

Option C: Establishing a SecuRemote Client to Checkpoint Firewall Connection

- Create a VPN between customer's desktop and NFC's network terminating at Checkpoint Firewall
  a. Request client on Customer's Windows 95 and/or NT desktops
     i. Windows 95B (Version 4.00.950B), 32 Meg RAM
     ii. Windows NT with Service Pack 3, 64 Meg RAM
     iii. NOTE: Customers whose network is located behind a firewall running NAT will require a static route in their firewall to allow their network to communicate with NFC. This will take coordination of both the Customers and NFC Firewall Managers. Prior to proceeding initiate this communication.
  b. Set up SecuRemote Client
     i. Receive and follow the download of software instructions
     ii. Establish the SecuRemote Client

- Coordinate TCP/IP Application Testing (ISSO)
  a. a. Establish test criteria
  b. b. Set testing dates
  c. c. Test and evaluate customer's ability to reach the NFC sign-on screen (TN3270) or EARN main screen (CoolGen app), and ability to complete a File Transfer to NFC's Mainframe.

- Coordinate NFC Application Testing (IC)
  a. Establish test criteria
  b. Set testing dates
  c. Test and evaluate operation of specific applications (EARN, IRIS, Travel) and telecommunication clients (TN3270, FTP, VPS Print, CoolGen) via Client to Gateway connection.

- Implement Into Production

Option D: Establishing an Entrust/SecuRemote Client to NFC Connection

- Create a VPN between customer's desktop and NFC
  a. Procure/request client on Customer's Windows 95 and/or NT desktops
     i. Windows 95B (Version 4.00.950B), 32 Meg RAM
     ii. Windows NT with Service Pack 3, 64 Meg RAM
     iii. NOTE: Customers whose network is located behind a firewall running NAT will require a static route in their firewall to allow their network to communicate

with NFC. This will take coordination of both the Customers and NFC Firewall Managers. Prior to proceeding initiate this communication.

iv. Customer must present pictured identification along with a signed subscriber agreement.

v. The client request, pictured ID, and subscriber agreement along with the users NFC ID, e-mail address and phone number are forwarded to NFC by the NFC Security Officer.

b. Set up the Entrust/SecuRemote Client

i. Receive and follow the download of software instructions

ii. Establish the Entrust/SecuRemote Client

iii. Activate the Client Digital Signature Certificate

- Coordinate TCP/IP Application Testing (ISSO)
  a. Establish test criteria
  b. Set testing dates
  c. Test and evaluate customer's ability to reach the NFC sign-on screen (TN3270) or EARN main screen (CoolGen app), and ability to complete a File Transfer to NFC's Mainframe.

- Coordinate NFC Application Testing (IC)
  a. Establish test criteria
  b. Set testing dates
  c. Test and evaluate operation of specific applications (EARN, IRIS, Travel) and telecommunication clients (TN3270, FTP, VPS Print, CoolGen) via Client to Gateway connection.

- Implement Into Production

Option E: Establishing a Direct Connection (Line/Router)

- Establish a true private network connection between customer's network and NFC's network terminating at NFC's CISCO Router (border router)
  a. Provide serial port on customer's CISCO router and serial link between customer network and NFC. NOTE: Customers must have a CISCO router to use this option.
  b. Configure customer's router, firewall, and routing tables.
  c. Update border router, firewall, and routing tables.

- Coordinate TCP/IP Application Testing (ISSO)
  a. Establish test criteria
  b. Set testing dates
  c. Test and evaluate customer's ability to reach the NFC sign-on screen (TN3270) or EARN main screen (CoolGen app), and ability to complete a File Transfer to NFC's Mainframe.
  d.

- Coordinate NFC Application Testing (IC)
  a. Establish test criteria
  b. Set testing dates
  c. Test and evaluate operation of specific applications (EARN, IRIS, Travel) and telecommunication clients (TN3270, FTP, VPS Print, CoolGen) via Direct connection.

- Implement Into Production

APPENDIX B – MDAC Reference

Microsoft® Data Access Components (MDAC) are the key technologies that enable Universal Data Access. Data-driven client/server applications deployed over the Web or a LAN can use these components to easily integrate information from a variety of sources, both relational (SQL) and nonrelational. These components include Microsoft® ActiveX® Data Objects (ADO), OLE DB, and Open Database Connectivity (ODBC). NFC's applications use the ODBC component.

NFC distributes version 2.1.1.3711.11 (GA) of the Microsoft Data Access Component (MDAC), for use with STAR and PRMS. To assist those setting up these systems, we've included information on installation, common error messages and files installed to the system during MDAC setup. For more information, please visit the Microsoft website.

Q: How can I tell what version of MDAC is installed on my system?

You can check the version numbers on specific .dll files associated with MDAC to determine the version installed on your system. The following table summarizes the file versions that correspond to the version of MDAC distributed by NFC.

MDAC version	Msdadc.dll	Oledb32.dll
MDAC 2.1.1.3711.11 (GA)	2.10.3711.2	2.10.3711.9

Note these version numbers and compare them after an application installation to determine whether MDAC was upgraded. These files may be found in your computer's Windows System directory.

Q: Can I uninstall MDAC?

The Microsoft Data Access Components are system components, and installing MDAC should be considered similar to a system upgrade. You cannot remove MDAC without replacing operating system files that were upgraded by the MDAC installer. Many applications, including Microsoft Internet Explorer, Visual Studio, SQL Server, and Office require MDAC for data binding and other application functions. Removing MDAC will negatively impact or break these applications. However, under certain circumstances, Microsoft Product Support Services can assist you in solving installation and behavior problems.

Version Information for MDAC 2.1.1.3711.11 (GA)

- Release version number: MDAC 2.1.1.3711.11 (GA), April 1999
- Release function: This release provides directly to the public the same version of MDAC released with Microsoft Office 2000.
- Release ship vehicle: Microsoft Universal Data Access Web site, www.microsoft.com/data/download.htm
- New features: None. Bug fixes only.
- Areas of significant bug fixes: Significant fixes were implemented in this release of MDAC. Details of many of these fixes can be found in "Significant Fixes for MDAC 2.1.1.3711.11 (GA)."

  These fixes involved backward compatibility with the MDAC 2.1 ODBC Driver for Microsoft Jet, ODBC installation version issues, OLE DB Provider for Microsoft Jet behavior as well as client-side cursor behavior, and ADO bugs. Also included are fixes specific to MDAC and Access 2000, Outlook 98, Outlook 2000, and Office Web services.

  Specific bug fix of high importance:

  - The initial release of Internet Explorer 5 (build 5.00.2014.0216), containing MDAC 2.1.1.3711.6 (IE5), may generate an application violation when an ActiveX Data Objects (ADO) consumer application attempts to connect, or to test a connection, using the Microsoft Data Links API. Specifically, this issue affects those OLE DB providers that do not have the optional OLEDB_SERVICES registry entry. The Microsoft OLE DB Provider for DB2 and the Microsoft OLE DB Provider for AS/400 and VSAM are adversely affected by this issue. This problem is resolved in Internet Explorer 5 build 5.00.2314.1003, as well as in MDAC 2.1.1.3711.11 (GA).
- Important notes
  - Internet Explorer 5a: Internet Explorer 5a installs a subset of MDAC 2.1.1.3711.11. This subset is a limited client installation that contains only core ADO, OLE DB, and ODBC. It does not contain Microsoft Jet or any drivers or providers found in MDAC 2.1.1.3711.11 (GA).
  - Header files: There are no changes in the header files in different released versions of MDAC 2.1/*x*; therefore, these files are the same in all versions.

Known Issues for MDAC 2.1.1.3711.11 (GA)

Microsoft Jet Database Engine

MDAC 2.1.1.3711.11 (GA) contains the Microsoft Jet Database Engine version "4.0 SP1" (4.0.2521.08). This version of Microsoft Jet is the same that was released with Microsoft Office 2000. This is a generally available release of Jet, versus the previous (initial) version of Jet 4.0 (4.0.2115.25), which shipped in MDAC 2.1/SQL Server 7.0, and which was targeted specifically at to Microsoft SQL Server 7.0 internal usage. Please see www.microsoft.com/data/download.htm for details and restrictions on about that release. Microsoft Jet 4.0 SP1 contains many significant improvements over Jet 4.0 (4.0.2115.25).

Significant Fixes for MDAC 2.1.1.3711.11 (GA)

Significant fixes were implemented in this release of the Microsoft Data Access Components. These fixes involved backward compatibility with the MDAC 2.1 ODBC Driver for Microsoft Jet, ODBC installation version issues, OLE DB Provider for Microsoft Jet behavior as well as client-side

cursor behavior, and ADO bugs. Also included are fixes specific to MDAC and Access 2000, Outlook 98, Outlook 2000, and Office Web services.

Details of many of these fixes can be found at the Microsoft Universal Data Access website.

File List for MDAC 2.1.1.3711.11 (GA) April /1999

File name	Long file name	Alpha Version	x86 Version
12520437.cpx		n/a	n/a
MDAC21RD.txt	MDACReadme.txt	n/a	n/a
12520850.cpx		n/a	n/a
adcjavas.inc		n/a	n/a
adcvbs.inc		n/a	n/a
adoapt15.reg		n/a	n/a
adofre15.reg		n/a	n/a
adojavas.inc		n/a	n/a
adomdrd.txt	ADOMDReadme.txt	n/a	n/a
adoreadm.txt	ADOReadme.txt	n/a	n/a
adovbs.inc		n/a	n/a
adoxrdme.txt	ADOXReadme.txt	n/a	n/a
cliconf.hlp		n/a	n/a
cliconfg.DLL		1998.11.13.0	1998.11.13.0
cliconfg.exe		1998.11.13.0	1998.11.13.0
dbmsadsn.dll		1998.11.13.0	1998.11.13.0
dbmsrpcn.dll		1998.11.13.0	1998.11.13.0
dbmsshrn.dll		1998.11.13.0	1998.11.13.0
dbmssocn.dll		1998.11.13.0	1998.11.13.0
dbmsspxn.dll		1998.11.13.0	1998.11.13.0
dbmsvinn.dll			1998.11.13.0
dbnmpntw.dll		1998.11.13.0	1998.11.13.0
drvvfp.cnt		n/a	n/a
drvvfp.hlp		n/a	n/a
ds16gt.dll		3.510.3711.0	3.510.3711.0
ds32gt.dll		3.510.3711.0	3.510.3711.0
expsrv.dll		6.0.0.8268	6.0.0.8268

HANDLER.reg		n/a	n/a
handsafe.reg		n/a	n/a
handunsf.reg		n/a	n/a
instcat.sql		n/a	n/a
jroread.txt	JROreadme.txt	n/a	n/a
makapt15.bat		n/a	n/a
makfre15.bat		n/a	n/a
msadce.dll		2.10.3711.0	2.10.3711.0
msadcer.dll		2.10.3711.0	2.10.3711.0
msadcf.dll		2.10.3711.0	2.10.3711.0
msadcfr.dll		2.10.3711.0	2.10.3711.0
msadco.dll		2.10.3711.1	2.10.3711.1
msadcor.dll		2.10.3711.0	2.10.3711.0
msadcs.dll		2.10.3711.0	2.10.3711.0
msadds.dll		2.10.3711.2	2.10.3711.2
msaddsr.dll		2.10.3711.0	2.10.3711.0
msader15.dll		2.10.3711.3	2.10.3711.3
msado15.dll		2.10.3711.9	2.10.3711.9
msado20.tlb		n/a	n/a
msadomd.dll		2.10.3711.0	2.10.3711.0
msador15.dll		2.10.3711.3	2.10.3711.3
msadox.dll		2.10.3711.0	2.10.3711.0
msadrh15.dll		2.10.3711.3	2.10.3711.3
mscpxl32.dll		3.60.3.20	3.60.3.20
msdadc.dll		2.10.3711.2	2.10.3711.2
msdaenum.dll		2.10.3711.2	2.10.3711.2
msdaer.dll		2.10.3711.2	2.10.3711.2
msdaora.dll		2.10.3711.0	2.10.3711.0
msdaosp.dll		2.10.3711.0	2.10.3711.0
msdaprsr.dll		2.10.3711.0	2.10.3711.0
msdaprst.dll		2.10.3711.0	2.10.3711.0
msdaps.dll		2.10.3711.0	2.10.3711.0
msdarem.dll		2.10.3711.0	2.10.3711.0

msdaremr.dll		2.10.3711.0	2.10.3711.0
msdasc.cnt		n/a	n/a
msdasc.dll		2.10.3711.2	2.10.3711.2
msdasc.hlp		n/a	n/a
msdasc.txt	msdasc.txt	n/a	n/a
msdasql.dll		2.10.3711.0	2.10.3711.0
msdasqlr.dll		2.10.3711.0	2.10.3711.0
msdatl2.dll		2.10.3711.0	2.10.3711.0
msdatsrc.tlb		n/a	n/a
msdatt.dll		2.10.3711.0	2.10.3711.0
msdfmap.dll		2.10.3711.0	2.10.3711.0
msdfmap.ini		n/a	n/a
msdsqlrm.txt	MSDASQLreadme.txt	n/a	n/a
msexch40.dll			4.0.2521.8
msexcl40.dll			4.0.2521.8
msjet40.dll		4.0.2521.9	4.0.2521.8
MSJETO~1.DLL	msjetoledb40.dll	4.0.2521.8	4.0.2521.8
msjint40.dll		4.0.2521.8	4.0.2521.8
msjro.dll		2.10.3711.0	2.10.3711.0
msjter40.dll		4.0.2521.8	4.0.2521.8
msjtes40.dll		4.0.2521.8	4.0.2521.8
msltus40.dll			4.0.2521.8
msorcl32.cnt		n/a	n/a
msorcl32.dll		2.573.3711.0	2.573.3711.0
msorcl32.hlp		n/a	n/a
msorcolr.txt	MSOrclOLEDBreadme.txt	n/a	n/a
msorcrdm.txt	MSOracle32Readme.txt	n/a	n/a
mspbde40.dll			4.0.2521.8
msrclr40.dll			4.0.2521.8
msrd2x40.dll			4.0.2521.9
msrd3x40.dll		4.0.2521.8	4.0.2521.8
msrecr40.dll			4.0.2521.8
msrepl40.dll			4.0.2521.9

mstext40.dll			4.0.2521.8
mswdat10.dll		4.0.2521.8	4.0.2521.8
mswstr10.dll		4.0.2521.8	4.0.2521.8
msxactps.dll		2.10.3711.0	2.10.3711.0
msxbde40.dll			4.0.2521.8
mtxdm.dll		1997.11.532.0	1997.11.532.0
mtxoci.dll		1998.2.715.0	1998.2.715.0
odbc16gt.dll		3.510.3711.0	3.510.3711.0
odbc32.dll		3.510.3711.0	3.510.3711.0
odbc32gt.dll		3.510.3711.0	3.510.3711.0
odbcad32.exe		3.510.3711.0	3.510.3711.0
odbcbcp.dll		3.70.6.23	3.70.6.23
odbccp32.cpl		3.510.3711.0	3.510.3711.0
odbccp32.dll		3.510.3711.0	3.510.3711.0
odbccr32.dll		3.510.3711.0	3.510.3711.0
odbccu32.dll		3.510.3711.0	3.510.3711.0
odbcinst.cnt		n/a	n/a
odbcinst.hlp		n/a	n/a
odbcint.dll		3.510.3711.0	3.510.3711.0
odbcjet.cnt		n/a	n/a
odbcjet.hlp		n/a	n/a
odbcji32.dll		4.0.3711.6	4.0.3711.6
odbcjt32.dll		4.0.3711.8	4.0.3711.8
odbctrac.dll		3.510.3711.0	3.510.3711.0
oddbse32.dll		4.0.3711.6	4.0.3711.6
odexl32.dll		4.0.3711.6	4.0.3711.6
odfox32.dll		4.0.3711.6	4.0.3711.6
odpdx32.dll		4.0.3711.6	4.0.3711.6
odtext32.dll		4.0.3711.6	4.0.3711.6
oledb32.dll		2.10.3711.9	2.10.3711.9
oledb32r.dll		2.10.3711.2	2.10.3711.2
oledb32x.dll		2.10.3711.2	2.10.3711.2
sqloledb.dll		7.1.6.23	7.1.6.23

are established by DCOM95:

EnableDCOM (default value = "Y").
Enables DCOM on this machine. When set to "N", the machine is prevented from connecting to or activating objects on remote machines, and remote machines are unable to connect to objects on the local machine. Setting this value to "Y" enables either connectivity as a client to remote objects (when EnableRemoteConnect='N', as explained below), or full client/server connectivity (when EnableRemoteConnect='Y', as explained below).

EnableRemoteConnect (default value = "N").
Enables COM servers to support remote clients. When this value is set to "Y", references to interfaces on local objects can be passed to remote clients, and remote clients are allowed to connect to running objects. When this value is set to "N", this machine is allowed to connect to remote objects but cannot act as a server: the machine is prevented from connecting to running objects.

In addition, the following registry key is found under HKEY_CLASSES_ROOT\CLSID:

{bdc67890-4fc0-11d0-a805-00aa006d2ea4}\InstalledVersion.
Contains the version number of DCOM95 in the format "a,b,c,d". This value can be used by Internet Component Download to determine whether DCOM95 is installed. This value is added to the registry during setup and should not be modified.

DCOM95 File List

This table lists the version numbers of files distributed with DCOM95.

File Name	DCOM95
asycfilt.dll	2.40.4275.1
comcat.dll	5.0.1601.1
compobj.dll	2.30.200.0
dcom2w98.dll	2.10.35.35
dllhost.exe	4.71.2900.0
imagehlp.dll	4.0.1381.1
iprop.dll	4.0.1381.6
ole2.dll	2.30.200.0
ole32.dll	4.71.2900.0
oleaut32.dll	2.40.4275.1
olecnv32.dll	4.71.2900.0
olepro32.dll	5.0.4275.1
olethk32.dll	4.71.2900.0
rpcltc1.dll	4.71.2900.0
rpcltc5.dll	4.71.2900.0
rpcltccm.dll	4.71.2900.0
rpclts5.dll	4.71.2900.0
rpcltscm.dll	4.71.2900.0
rpcmqcl.dll	4.71.2900.0
rpcmqsvr.dll	4.71.2900.0
rpcns4.dll	4.71.2900.0

rpcrt4.dll	4.71.2900.2
rpcss.exe	4.71.2900.0
secur32.dll	4.10.0.1999
stdole2.tlb	2.40.4275.1
stdole32.tlb	2.10.3027.1
storage.dll	2.30.200.0

This table lists the version numbers of files distributed with DC0M95CFG.

File Name	DCOM95CFG
dcomcnfg.exe	5.00.1603.0
ciscnfg.exe	4.71.2618.0

DCOM98 Registry Settings

The following registry keys found under HKEY_LOCAL_MACHINE\Software\Microsoft\OLE are established by DCOM98:

EnableDCOM (default value = "Y").
Enables DCOM on this machine. When set to "N", the machine is prevented from connecting to or activating objects on remote machines, and remote machines are unable to connect to objects on the local machine. Setting this value to "Y" enables either connectivity as a client to remote objects (when EnableRemoteConnect='N', as explained below), or full client/server connectivity (when EnableRemoteConnect='Y', as explained below).

EnableRemoteConnect (default value = "N").
Enables COM servers to support remote clients. When this value is set to "Y", references to interfaces on local objects can be passed to remote clients, and remote clients are allowed to connect to running objects. When this value is set to "N", this machine is allowed to connect to remote objects but cannot act as a server: the machine is prevented from connecting to running objects.

In addition, the following registry key is found under HKEY_CLASSES_ROOT\CLSID:

{bdc67890-4fc0-11d0-a805-00aa006d2ea4}\InstalledVersion.
Contains the version number of DCOM98 in the format "a,b,c,d". This value can be used by Internet Component Download to determine whether DCOM98 is installed. This value is added to the registry during setup and should not be modified.

DCOM98 File List

This table lists the version numbers of files distributed with DCOM98.

File Name	DCOM98
asycfilt.dll	2.40.4275.1
comcat.dll	5.0.1601.1
compobj.dll	2.30.200.0
dcom2w98.dll	2.10.35.35
dllhost.exe	4.71.2900.0
imagehlp.dll	4.0.1381.1

SQLOLEDB.txt		n/a	n/a
sqlsodbc.hlp		n/a	n/a
SQLSOLDB.hlp		n/a	n/a
Sqlsrdme.txt		n/a	n/a
sqlsrv32.dll		3.70.6.23	3.70.6.23
sqlstr.dll		1998.11.13.0	1998.11.13.0
sqlwid.dll		1998.11.13.0	1998.11.13.0
sqlwoa.dll		1998.11.13.0	1998.11.13.0
vbajet32.dll		6.0.1.8268	6.0.1.8268
vfpodbc.dll		6.0.8428.0	6.0.8428.0
vfpodbc.txt		n/a	n/a
asycfilt.dll		2.40.4275.1	2.40.4275.1
common98.dll			
msvcirt.dll		6.0.8178.0	6.0.8168.0
msvcrt.dll		6.0.8441.0	6.0.8397.0
odbcconf.exe			
odbckey.inf			
odbcstf.dll			
oleaut32.dll		2.40.4275.1	2.40.4275.1
olepro32.dll		5.0.4275.1	5.0.4275.1
stdole2.tlb		2.40.4275.1	2.40.4275.1

APPENDIX C – DCOM95/98 Reference

DCOM95 and DCOM98 provide Distributed COM support for Microsoft® Windows® 95 and 98, respectively. The DCOM wire protocol transparently provides support for reliable, secure, and efficient communication between Component Object Model (COM) components such as ActiveX® controls, scripts, and Java applets residing on different machines in a LAN, a WAN, or on the Internet. With DCOM, your application can be distributed across locations that make the most sense to you and to the application.

This reference provides the Registry Settings and Filelist for both DCOM95 and DCOM98.

DCOM95 Registry Settings

The following registry keys found under HKEY_LOCAL_MACHINE\Software\Microsoft\OLE

iprop.dll	4.0.1381.6
ole2.dll	2.30.200.0
ole32.dll	4.71.2900.0
oleaut32.dll	2.40.4275.1
olecnv32.dll	4.71.2900.0
olepro32.dll	5.0.4275.1
olethk32.dll	4.71.2900.0
rpcltc1.dll	4.71.2900.0
rpcltc5.dll	4.71.2900.0
rpcltccm.dll	4.71.2900.0
rpclts5.dll	4.71.2900.0
rpcltscm.dll	4.71.2900.0
rpcmqcl.dll	4.71.2900.0
rpcmqsvr.dll	4.71.2900.0
rpcns4.dll	4.71.2900.0
rpcrt4.dll	4.71.2900.2
rpcss.exe	4.71.2900.0
secur32.dll	4.10.0.1999
stdole2.tlb	2.40.4275.1
stdole32.tlb	2.10.3027.1
storage.dll	2.30.200.0

This table lists the version numbers of files distributed with DC0M95CFG.

File Name	DCOM95CFG
dcomcnfg.exe	5.00.1603.0
ciscnfg.exe	4.71.2618.0

APPENDIX D – Links and Other Resources

Several resources are available to NFC customers. The first point of contact should always be your NFC Customer Service Representative. They may then point you to one of the following resources:

- There is invaluable information to be found on the NFC Home Page, including Contact lists, Frequently Asked Questions, and more.
- For information on using NFC applications, contact Customer Support at (504) 255-5230.
- For information on printed directives, application help, and other publications, contact the Directives and Analysis Branch.
- Send us Email:
  - Customer Support Office: customer.support@usda.gov
  - Directives and Analysis Branch: nfc.dab@usda.gov


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Glossary

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application client:

Software loaded on a local or network drive that provides the application environment (windows) for accessing and processing data. Examples: STAR, PRMS, EMCP.

bind:

To assign a value to a symbolic placeholder. During compilation, for example, the computer assigns symbolic addresses to some variables and instructions. When the program is bound, or linked, the binder replaces the symbolic addresses with real machine addresses. The moment at which binding occurs is called bind time or link time.

database:

In the case of PC applications, a file used to store information. Accessed and updated by the associated application software.

DCOM95/98:

DCOM95 and DCOM98 provide Distributed COM support for Microsoft® Windows® 95 and 98, respectively. The DCOM wire protocol transparently provides support for reliable, secure, and efficient communication between Component Object Model (COM) components such as ActiveX® controls, scripts, and Java applets residing on different machines in a LAN, a WAN, or on the Internet. With DCOM, your application can be distributed across locations that make the most sense to you and to the application.

firewall:

A system designed to prevent unauthorized access to or from a private network. Firewalls can be implemented in both hardware and software, or a combination of both. Firewalls are frequently used to prevent unauthorized Internet users from accessing private networks connected to the Internet, especially intranets. All messages entering or leaving the intranet pass through the firewall, which examines each message and blocks those that do not meet the specified security criteria. Types of firewall techniques include: Packet filter; application gateway; circuit-level gateway; proxy server.

Microsoft® Data Access Components (MDAC):

The key technologies that enable Universal Data Access. Data-driven client/server applications deployed over the Web or a LAN can use these components to easily integrate information from a variety of sources, both relational (SQL) and nonrelational. These components include Microsoft® ActiveX® Data Objects (ADO), OLE DB, and Open Database Connectivity (ODBC). NFC's applications use the ODBC component. For more info, goto Microsoft's website.

node:

In networks, a processing location. A node can be a computer or some other device, such as a printer. Every node has a unique network address (e.g., DLC or MAC addresses).

Open Database Connectivity (ODBC):

Industry standard interface and a component of Microsoft® Windows® Open Services Architecture (WOSA). The ODBC interface makes it possible for applications to access data

from a variety of database management systems (DBMSs). ODBC permits maximum interoperability-an application can access data in diverse DBMSs through a single interface. Furthermore, that application will be independent of any DBMS from which it accesses data. Users of the application can add software components called drivers, which create an interface between an application and a specific DBMS. For more info, goto Microsoft's website.

PING:

A utility to determine whether a specific IP Address is accessible. It works by sending a packet to the specified address and waiting for a reply. PING is used primarily to troubleshoot Internet connections.

secured link :

Established in one of several ways, generally involving a direct connection, firewalls, or a separate encryption client, any of which protects transmitted data from being compromised by non-authorized users. Required to operate all NFC Upgraded applications.

transaction processing:

A type of computer processing in which the computer responds immediately to user requests. Each request is considered to be a transaction. Automatic teller machines for banks are an example of transaction processing. The opposite of transaction processing is batch processing.

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Downloading the Software

NFC software is available from the File Transfer Protocol (FTP) site, which can be accessed directly from the NFC home page or through the use of a separate FTP client. This site is known as the Download Center. Application setup files may be downloaded to a local PC and installed from there. The programs use an installation procedure similar to that of most other Windows 95/98 or Windows NT 4.0 applications.

Getting Access to the Software

To download software from NFC, the agency Security Officer or IT coordinator obtains an ID and password to the Download Center. This ID accesses the appropriate remote directory from which the desired application setup files may be downloaded. The form used to request the ID is an ***AD-1128, Request for Electronic Downloading of Software From NFC***.

An online version of this form may be obtained from the Download Center, or you may contact DAB. You will need Adobe Acrobat Reader to view and complete the online form. Once completed, it may be mailed, faxed or e-mailed to:

Directives and Analysis Branch (DAB)
National Finance Center
P.O.Box 60000
New Orleans, LA 70160

Email: nfc.dab@usda.gov
Fax: 504-255-4367

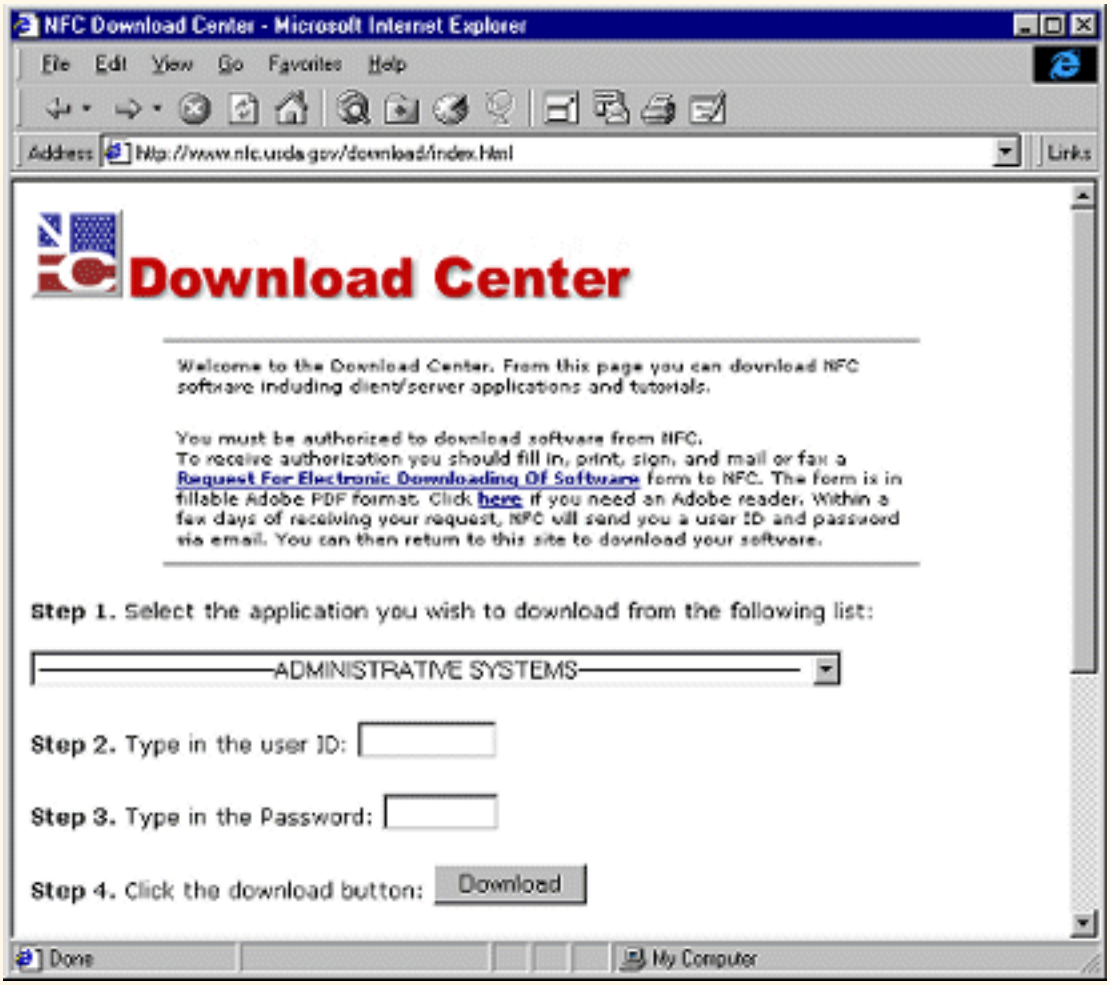
Once NFC has processed the request, the agency will receive software download instructions for accessing the Download Center. Included are the host name of the Download Center, the authorized ID and password used to access the specified system folder, and instructions on obtaining and running the application setup files.

Downloading Files

There are two ways to download the installation files. The first uses NFC's existing web home page to locate and access the FTP server. The second uses a separate FTP Client to access the server. Both methods require the authorized ID and password discussed above.

Using the NFC Home Page

To reach the download site, go to the NFC Home page and click the NFC Download Center button to display the following page:



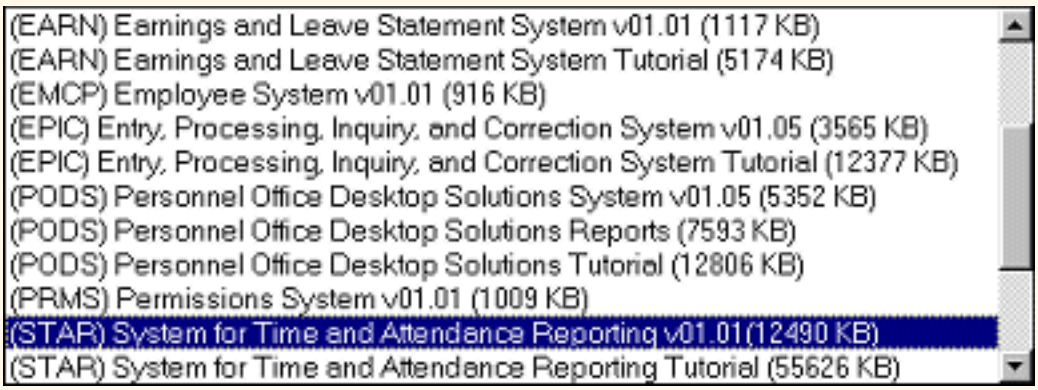
From this page, you may:

- View, fill-out and print the Form AD-1128 requesting the download ID and password.
- Obtain a copy of Adobe Acrobat Reader to view the form.

And, if you've already requested and received your ID and password

- Select and download the desired software and/or installation instructions.

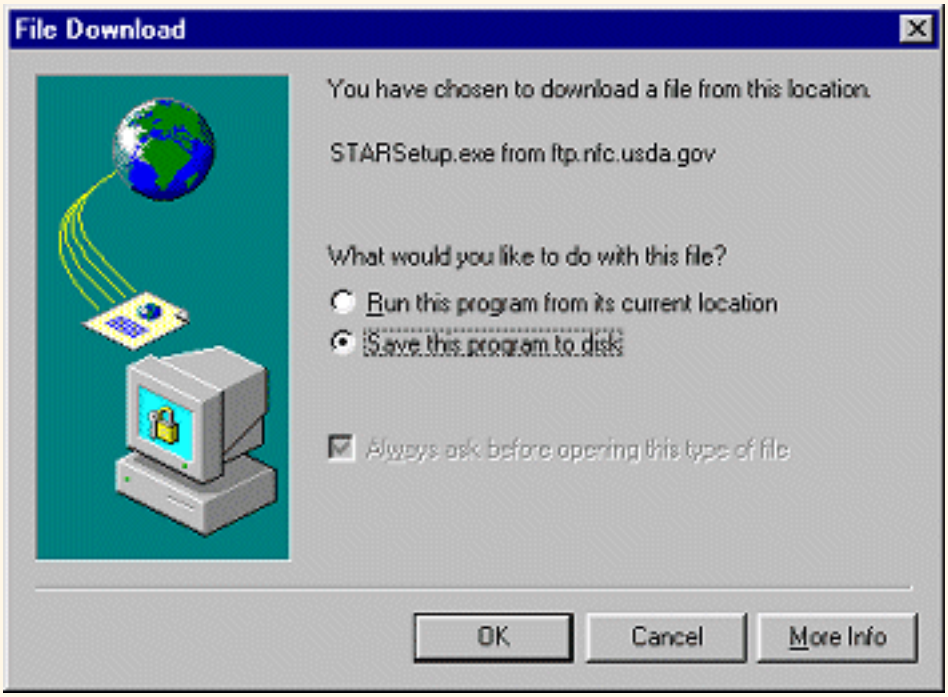
In Step 1, click the down arrow to view the available applications, shown here:



Click to select the desired application.

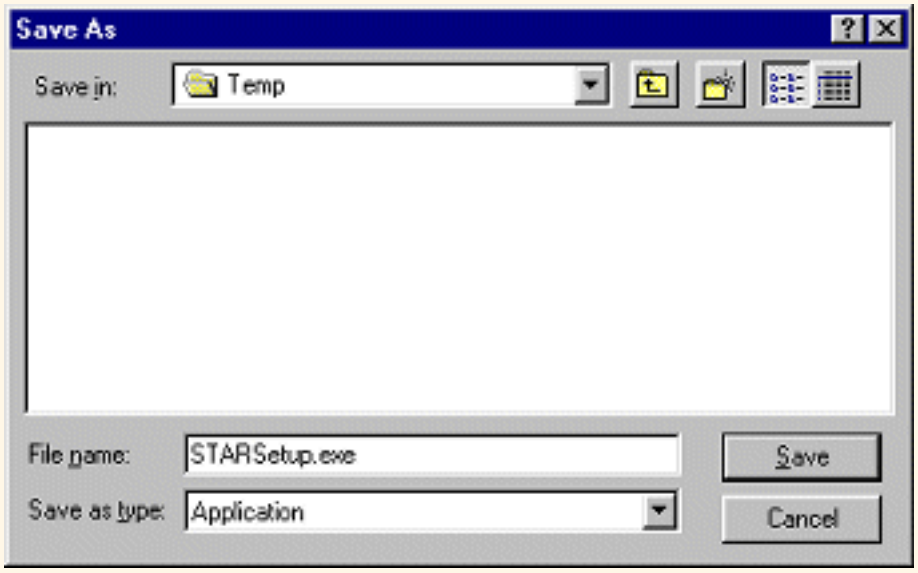
When you've entered your ID and password, click Download. The following warning message will appear:

Clicking OK will launch your browser's download file dialog. Depending on your browser configuration you may see a window like this:

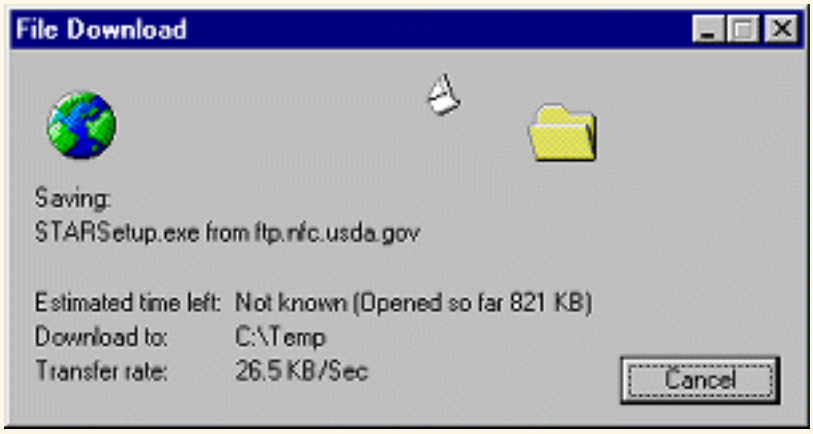


With "Save this program to disk" selected, click OK. You'll see the Save As... dialog box, and

the application filename will appear in the File name: block. Locate the folder to which you wish to save the file, then click Save.



The File Download dialog box appears. When the download is complete, this box will close, and you'll be returned to the NFC Download Center page, where you may download another application, or close your browser. Follow the instructions for the selected application to install the software you have downloaded. Installation instructions are discussed in Installing the Client Software.



Using an FTP Client

If you have an FTP client, you may connect directly to the NFC FTP Server without using a web browser. On the software download instructions you receive from NFC, you will find the following information:

- Host Name
- Authorized User ID
- Case-sensitive password

Use this information to configure your FTP client for connection. Consult your FTP client's help facility for information about using the client.

Some agency Security Officers or IT coordinators may not have FTP client software. If so, WS-FTP Limited Edition, a free-for-government-use FTP client developed by Ipswitch, Inc., may be downloaded from that company's website.

Valid Application Downloads

The following are application downloads currently available for each of the listed upgrade systems. They may be accessed from our web site or FTP server as indicated earlier.

Table 1: Download Applications and Filenames

System	Application Setup File	Online Tutorial
STAR: System for Time and Attendance Reporting	`StarSetup.exe`	`StarT101.exe`
PRMS/EMCP: Permissions and Employee Systems	`PrmsSetup.exe`	NA
MDAC Setup: Supplement to STAR *	`MDAC_Typ.exe`	NA
DCOM Setup: Supplement to STAR *	`DCOM95.exe` `DCOM98.exe`	NA

** These files may or may not be required by your PC. See Appendices for more information*

Summary

Once you have all the installation files you require, you may use Windows Explorer to locate the download folder you selected, and follow the steps covered in Installing the Software.

Software Download Instructions

USER REQUIREMENTS: Web Browser or FTP Client, and Internet Connection
The FTP Client can be downloaded free of charge from the Internet. The URL is
http://www.ipswitch.com/downloads/ws_ftp_LE.html

Download Instructions

1. Access the *Download Center* by:
   a. Connecting to the NFC Home Page and clicking the Download Center button, or
   b. Connecting to the FTP site at FTP.NFC.USDA.GOV using a standard GUI or text FTP client.

2. Type the authorized user ID name which is <User ID>.

3. Type the password (case sensitive) which is <Password>

4. Download the selected application file to a drive on your PC or your network.

5. Using Windows Explorer, double click the application file in the directory where it was downloaded to decompress the software.

   OR

   Using the "Run" option under Windows, enter the application file from the directory where it was downloaded to decompress the software.

6. Follow the instructions on the screen for the installation process.

7. Click the icon to access the application and verify installation, communications and security functionality after completion of the installation process.

8. Delete the directory in which the files were downloaded.

NOTE: If you do not have the Logon application, you must download this software before the application software. All PayPers applications use the Logon software. The Logon software can be located in the PayPers folder.

Who To Contact For Help Using Electronic Software Distribution

For questions about security (e.g. password, user ID), contact the Security Office. For other questions, contact Information Center personnel.

Installing the Software

The following section contains information on using each of the listed scenarios, including suggestions on implementation and testing. Once you've decided on an implementation scenario, you can install the applications using the associated setup files.

Typical or Compact?

As you'll see, there are two types of installation available with the application setup files: Typical and Compact. To determine which to use, consider the following:

- If you want each user to have the entire client installed on his or her PC (i.e., a standalone application), you'll use the Typical installation option on each machine.
- If you wish to have the application client files stored on a LAN server and the database installed locally, you'll use the Typical installation option to load the application client and runtimes to the server machine, and then use the Compact installation to configure each user's PC to communicate with the LAN client, and to load the database file on the user's machine.

More information on what files are installed and to which directories may be found in the section on Technical Information. For now, let's look at the installation scenarios in more detail.

Installing EMCP & PRMS

As mentioned in Getting Started, the System Administrator should use the PrmsSetup file to install Employee (EMCP) and Permissions (PRMS). EMCP creates the initial database with the SuperUser ID that allows the Administrator to add all timekeepers, and assign them access to STAR. PRMS provides the Administrator with a facility to assign that access via predefined profiles. How the installation is accomplished depends upon the installation scenario chosen by your agency.

- Scenario 1: Standalone EMCP/PRMS Installation for Each User
- Scenario 2: LAN Installation of PRMS Application / Hard Drive Installation of MDB file

Scenario 1: Standalone EMCP/PRMS Installation for Each User

The setup program for each application is set to install files to a default location of C:\USDANFC\star. If an agency wishes to load the full application to each individual workstation, they should keep this default location, or change the location to another local hard drive (e.g., a physical drive C, D, etc.). To install EMCP and PRMS:

- Close all Windows applications.
- Use Windows Explorer to locate the application setup file (PRMSSetup.exe).

- Double-click the setup file.
- Follow the online instructions provided by the setup program, using the Typical setup type.

Scenario 2: LAN Installation of PRMS Application / Hard Drive Installation of MDB file

If an agency wishes to install the application to a Network, they should ensure that the person installing the application clients to the network server ***has write access to that drive and folder***. The installation can then proceed as follows:

1. Install the application using the Typical setup type (see instructions under "Scenario 1: Standalone (PC) Installation for Each User").
2. When the setup program displays the suggested installation drive and directory, change this to the Network server's drive. For example, to install applications to a Network drive called "H", the typical destination location might be: H:\USDANFC\STAR
3. Continue with the Typical installation.
4. When the install is completed, click Finish to close the setup window.

In addition, you will need to go to each user's PC to install certain registry entries. For these individual installs:

5. Install the application using the Compact setup type.
6. When the setup program displays the suggested installation drive and directory, change this to the Network server's drive you selected in Step 2.
7. Continue with the Compact installation.
8. When the install is completed, click Finish to close the setup window.

Installing STAR

As mentioned in Getting Started, the System Administrator should use the StarSetup file to install the STAR application. How this is accomplished depends upon the installation scenario chosen by your agency.

- Scenario 1: Standalone STAR Installation for Each User
- Scenario 2: LAN Installation of STAR Application / Hard Drive Installation of MDB file

Scenario 1: Standalone STAR Installation for Each User

The setup program for each application is set to install files to a default location of C:\USDANFC\star. If an agency wishes to load the full application to each individual workstation, they should keep this default location, or change the location to another local hard drive (e.g., a physical drive C, D, etc.). To install the application client(s):

- Close all Windows applications.
- Use Windows Explorer to locate the application setup file (StarSetup.exe).
- Double-click the setup file.
- Follow the online instructions provided by the setup program, using the Typical setup type.

- When the install is completed, click Finish to close the setup window.

Scenario 2: LAN Installation of STAR Application / Hard Drive Installation of MDB file

If an agency wishes to install the application to a Network, they should ensure that the person installing the application clients to the network server ***has write access to that drive and folder***. The installation can then proceed as follows:

1. Install the application using the Typical setup type (see instructions under "Scenario 1: Standalone (PC) Installation for Each User").
2. When the setup program displays the suggested installation drive and directory, change this to the Network server's drive. For example, to install applications to a Network drive called "H", the typical destination location might be: H:\USDANFC\STAR
3. Continue with the Typical installation.
4. When the install is completed, click Finish to close the setup window.

In addition, you will need to go to each user's PC to install the MDB file and certain registry entries. For these individual installs:

5. Install the application using the Compact setup type.
6. When the setup program displays the suggested installation drive and directory, change this to the Network server's drive you selected in Step 2.
7. Continue with the Compact installation.
8. When the install is completed, click Finish to close the setup window.

Using the Setup Files

- If Windows 95/98 or NT 4.0 isn't running, start it now.
- Locate the downloaded application setup file using Windows Explorer.
- Double-click the file. This will decompress the software and initiate the setup routine.

OR

- From your taskbar, go to START > Run and enter the drive and filename of the downloaded file, or Browse to find it. Select the file, then click OK to run it.

Follow the on-screen prompts to complete the installation. A typical install runs as shown in Table 1.

Table 1: Installation Sequence

Screen	Action(s)
Setup	Wait...
Welcome	Click Next.
Setup Type	Select the desired setup type, then click Next.
Select Program Folder	Accept the default program folder (National Finance Center); click Next.
Settings	Review the "Install To" folder and setup information and if correct, click Next. To modify any of the information, click Back.

Start Decompressing Files	Wait while setup installs the application components to the selected folder and creates icons. You will be notified when the process is completed.
Setup Complete	You may need to reboot your PC for the installation to complete. Make your selection, then click Finish.

Note to Administrators: The application's setup file creates an icon in the Start Menu for each PC on which it is run. If you downloaded the setup file from the FTP site, you may delete it from the local drive once the application client is installed, and the user has logged in successfully.

Summary

More information on these applications may be found in the online help, tutorials and "readme" documentation provided for each.

With the clients installed, you could start using the applications now. But first, we thought you could use some information on system maintenance, including how to update your software or remove an application. Let's take a look.

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Technical Information

This section is provided for technical support and IT personnel at your agency. It is intended to furnish information of a specific and technical nature that may assist these personnel with setting up, maintaining and troubleshooting the client portion of NFC's Upgrade Systems.

For information on general system setup recommendations, see Getting Started.

In Installing the Software, we introduced two installation options that may be used when installing STAR. The first, Typical, is used for both standalone and LAN client installations. The second, Compact, is used only for a LAN client installation.

When an application client is installed using either of the installation options, several changes are made to the local PC system. Folders are added, and registry entries are added or modified. For a Typical installation, additional changes may be made to LAN drives, if the destination directory chosen during installation resides on a LAN server. This section will detail any changes made during installation of STAR and its partner applications.

Folders Created by STAR

Installation of the application client will create the following folders on the C:\ drive:

<INSTALLDIR>	Root folder for all NFC applications.
<INSTALLDIR>\ STAR	Contains program files for the STAR application client (see Client Files, below.
C:\ USDANFC\ STAR\ Backup	Empty on install; default backup directory used by named application client.
C:\ USDANFC\ STAR\ Reports	Used by application client to store system report generators.

Installation of the Application clients will copy all application executables and program files into the <INSTALLDIR> folder. <INSTALLDIR> is the PC or LAN path\folder selected during installation as the destination directory. Regardless of the location selected, Backup and Reports folders will be created in the locations listed on the individual PC.

Client Files

When you use the Typical installation option, the application setup file copies all client files into the destination directory <INSTALLDIR> folder. These client files are:

STAR Setup	PRMS Setup

_deisreg.isr	Rtttrc.cnt	_deisreg.isr	Prms.hlp
_isreg32.dll	Rtttrc.dll	_isreg32.dll	Rtttrc.cnt
Cascade.dll	Rtttrc.hlp	Cascade.lib	Rtttrc.dll
Cascade.lib	star.CNT	Codepage.ini	Rtttrc.hlp
Codepage.ini	Star.dll	Csu51n.dll	StarODBC.reg *
Csu51n.dll	Star.exe	Csumg51n.dll	tiodbc.dll
Csumg51n.dll	Star.gid	Csuvn51n.dll	Trtrace.tip
Csuvn51n.dll	Star.hlp	defaultw.ico	Wrc510n.dll
defaultw.ico	STAR.reg *	Ec00.dll	Wre510n.dll
DeIsL1.isu	Star_008.exe	Ec00.exe	Wrf510n.dll
Ec00.dll	star_rag_0007.exe	EC00.reg	Wrg510n.dll
Ec00.exe	StarODBC.reg *	Ec05.dll	WRGUIN.dll
Ec05.dll	tiodbc.dll	Ec05.exe	Wrl510n.dll
Ec05.exe	Trtrace.tip	Ecascade.dll	Wroa0000.tlb *
EC05.reg *	Wrc510n.dll	emcp.CNT	wroaf.reg *
Ecascade.dll	Wre510n.dll	emcp.GID	Wrof0000.tlb *
emcp.CNT	Wrf510n.dll	Emcp.hlp	Wru510n.dll *
Emcp.gid	Wrg510n.dll	Iefmbt.dll	
Emcp.hlp	WRGUIN.dll	Me00.dll	
Iefmbt.dll	Wrl510n.dll	Me00.exe	
Ra0101.dll	Wroa0000.tlb *	ME00.reg *	
Ra0101.exe	wroaf.reg *	Pcascade.dll	
Ra0201.dll	Wrof0000.tlb *	prms.CNT	
Ra0201.exe	Wru510n.dll *	Prms.gid	

**** These are self-registering files.***

System Files

In addition to the files copied into the directory you select during installation, the application setup file will copy several Dynamic Link Library (DLL) files into two folders. Most of these DLLs (also called runtime libraries) are deployed into the <INSTALLDIR> folder (see Client Files, above). However, some MS Visual C++ runtimes are deployed into the Windows\System directory. These files are also found in the Compact installation option, and are coded to always load into the Windows System folder on the local machine. Organized by which setup file copies them, these Windows files are:

STAR Setup		PRMS Setup
comdlg32.ocx *	msvcrt.dll	mfc30.dll
crpaig32.dll	msvcrt20.dll	mfc42.dll *
crpe32.dll	msvcrt40.dll	msrd2x35.dll
crrun32.exe	msjet35.dll *	msvcrt.dll
dao2535.tlb *	oleaut32.dll *	msvcrt20.dll
dao350.dll *	p2bdao.dll	msvcrt40.dll
implode.dll	p2ctdao.dll	oleaut32.dll *
mfc30.dll	p2irdao.dll	
mfc42.dll *	vbajet32.dll	
msjint35.dll	vbar332.dll	
msjt3032.dll	ven2232.olb*	
msjter35.dll		
msrd2x35.dll		

**** These are self-registering files.***

In addition, one file is installed to the Windows directory itself:

```
iefgdic.ini
```

The automated setup handles installation of these files. The setup will copy the files if they don't exist on the installation system, or overlay existing files if they are older than the ones being installed. It will also create an application icon. When the applications are started they will use the runtimes installed locally by the setup file.

Why Typical and Compact?

The System Files listed above are installed to the local PC during both Typical and Compact installations, so why do we need two installation options? Well, when you install the application client to the LAN, all files are copied into their respective destination locations, including the local system changes mentioned above. But remember that the local changes are made to the installing machine, in this case a server workstation. The communications and configuration information needed for a user's PC to connect to and use the application client are not installed until the Compact option is used *on each user's PC*.

The Registry

In addition to copying files into the Windows or Windows\System folders and allowing system files to self-register, the installation program also runs several program registry files. These incorporate the destination directory (<INSTALLDIR>) chosen during installation, and may be found in the list of Client Files, above. Again, organized by setup file, the registry files are:

STAR Setup		PRMS Setup		
EC05.reg	MORE	ME00.reg	MORE	***Click "More" to view the registry entries created by each file.***
Star.reg	MORE	EC00.reg	MORE	
StarODBC.reg	MORE	StarODBC.reg	MORE	
Help	MORE	Help	MORE	
wroaf.reg	MORE	wroaf.reg	MORE	

Reports

In addition to the standard system dlls and files, installation of the STAR application loads a local reporting facility that utilizes Crystal Reports® software. From STAR you may print T&A reports in AD-321 or Text format. To enable this capability, several files are installed in the Reports folder on the local machine:

```
ad321.exe
ad321.rpt
ad321.crf
textrpt.exe
```

```
textrpt.rpt
textrpt.crf
```

Summary

If you wish to review any of the information discussed thus far, select a section from the navigation bar, or browse the Appendices, Glossary and FAQs.

Goto Section: 1 2 3 4 5 6 7 8 9 10

ec05.reg

```
HKEY_CLASSES_ROOT\EC05.Composer.Application
= Application Interface

HKEY_CLASSES_ROOT\EC05.Composer.Application\CLSID
= {57142B60-F298-11D2-AAD0-00E029274995}

HKEY_CLASSES_ROOT\EC05.Composer.Application\CurVer
= EC05.Composer.Application.1

HKEY_CLASSES_ROOT\EC05.Composer.Application\NotInsertable

HKEY_CLASSES_ROOT\EC05.Composer.Application.1
= Application Interface (Ver 1.0)

HKEY_CLASSES_ROOT\EC05.Composer.Application.1\CLSID
= {57142B60-F298-11D2-AAD0-00E029274995}

HKEY_CLASSES_ROOT\EC05.Composer.Application.1\NotInsertable

HKEY_CLASSES_ROOT\CLSID\{57142B60-F298-11D2-AAD0-00E029274995}
= Composer (Ver 4.0)

HKEY_CLASSES_ROOT\CLSID\{57142B60-F298-11D2-AAD0-00E029274995}\LocalServer32
= <INSTALLDIR>\EC05.EXE /Embedded

HKEY_CLASSES_ROOT\CLSID\{57142B60-F298-11D2-AAD0-00E029274995}\ProgID
= EC05.Composer.Application.1

HKEY_CLASSES_ROOT\CLSID\{57142B60-F298-11D2-AAD0-00E029274995}\VersionIndependentProgID
= EC05.Composer.Application

HKEY_CLASSES_ROOT\CLSID\{57142B60-F298-11D2-AAD0-00E029274995}\TypeLib
= {0C8F36F1-848E-11CE-9C08-02608CDA5EE3}

HKEY_CLASSES_ROOT\CLSID\{57142B60-F298-11D2-AAD0-00E029274995}\Programmable

HKEY_CLASSES_ROOT\CLSID\{57142B60-F298-11D2-AAD0-00E029274995}\NotInsertable
```

me00.reg

```
HKEY_CLASSES_ROOT\ME00.Composer.Application
= Application Interface

HKEY_CLASSES_ROOT\ME00.Composer.Application\CLSID
= {B00E2871-8975-11D2-814F-00E02908F413}

HKEY_CLASSES_ROOT\ME00.Composer.Application\CurVer
= ME00.Composer.Application.1

HKEY_CLASSES_ROOT\ME00.Composer.Application\NotInsertable

HKEY_CLASSES_ROOT\ME00.Composer.Application.1
= Application Interface (Ver 1.0)

HKEY_CLASSES_ROOT\ME00.Composer.Application.1\CLSID
= {B00E2871-8975-11D2-814F-00E02908F413}

HKEY_CLASSES_ROOT\ME00.Composer.Application.1\NotInsertable

HKEY_CLASSES_ROOT\CLSID\{B00E2871-8975-11D2-814F-00E02908F413}
= Composer (Ver 4.0)

HKEY_CLASSES_ROOT\CLSID\{B00E2871-8975-11D2-814F-00E02908F413}\LocalServer32
= <INSTALLDIR>\ME00.EXE /Embedded

HKEY_CLASSES_ROOT\CLSID\{B00E2871-8975-11D2-814F-00E02908F413}\ProgID
= ME00.Composer.Application.1

HKEY_CLASSES_ROOT\CLSID\{B00E2871-8975-11D2-814F-00E02908F413}\VersionIndependentProgID
= ME00.Composer.Application

HKEY_CLASSES_ROOT\CLSID\{B00E2871-8975-11D2-814F-00E02908F413}\TypeLib
= {0C8F36F1-848E-11CE-9C08-02608CDA5EE3}

HKEY_CLASSES_ROOT\CLSID\{B00E2871-8975-11D2-814F-00E02908F413}\Programmable

HKEY_CLASSES_ROOT\CLSID\{B00E2871-8975-11D2-814F-00E02908F413}\NotInsertable
```

star.reg

```
HKEY_CLASSES_ROOT\STAR.Composer.Application
= Application Interface

HKEY_CLASSES_ROOT\STAR.Composer.Application\CLSID
= {1CC8F361-63AB-11D2-8121-00E02908F413}

HKEY_CLASSES_ROOT\STAR.Composer.Application\CurVer
= STAR.Composer.Application.1

HKEY_CLASSES_ROOT\STAR.Composer.Application\NotInsertable

HKEY_CLASSES_ROOT\STAR.Composer.Application.1
= Application Interface (Ver 1.0)

HKEY_CLASSES_ROOT\STAR.Composer.Application.1\CLSID
= {1CC8F361-63AB-11D2-8121-00E02908F413}

HKEY_CLASSES_ROOT\STAR.Composer.Application.1\NotInsertable

HKEY_CLASSES_ROOT\CLSID\{1CC8F361-63AB-11D2-8121-00E02908F413}
= Composer (Ver 4.0)

HKEY_CLASSES_ROOT\CLSID\{1CC8F361-63AB-11D2-8121-00E02908F413}\LocalServer32
= <INSTALLDIR>\STAR.EXE /Embedded

HKEY_CLASSES_ROOT\CLSID\{1CC8F361-63AB-11D2-8121-00E02908F413}\ProgID
= STAR.Composer.Application.1

HKEY_CLASSES_ROOT\CLSID\{1CC8F361-63AB-11D2-8121-00E02908F413}\VersionIndependentProgID
= STAR.Composer.Application

HKEY_CLASSES_ROOT\CLSID\{1CC8F361-63AB-11D2-8121-00E02908F413}\TypeLib
= {0C8F36F1-848E-11CE-9C08-02608CDA5EE3}

HKEY_CLASSES_ROOT\CLSID\{1CC8F361-63AB-11D2-8121-00E02908F413}\Programmable

HKEY_CLASSES_ROOT\CLSID\{1CC8F361-63AB-11D2-8121-00E02908F413}\NotInsertable
```

ec00.reg

```
HKEY_CLASSES_ROOT\EC00.Composer.Application
= Application Interface

HKEY_CLASSES_ROOT\EC00.Composer.Application\CLSID
= {990E5FB0-8EDB-11D2-8136-00E02908E6D2}

HKEY_CLASSES_ROOT\EC00.Composer.Application\CurVer
= EC00.Composer.Application.1

HKEY_CLASSES_ROOT\EC00.Composer.Application\NotInsertable

HKEY_CLASSES_ROOT\EC00.Composer.Application.1
= Application Interface (Ver 1.0)

HKEY_CLASSES_ROOT\EC00.Composer.Application.1\CLSID
= {990E5FB0-8EDB-11D2-8136-00E02908E6D2}

HKEY_CLASSES_ROOT\EC00.Composer.Application.1\NotInsertable

HKEY_CLASSES_ROOT\CLSID\{990E5FB0-8EDB-11D2-8136-00E02908E6D2}
= Composer (Ver 4.0)

HKEY_CLASSES_ROOT\CLSID\{990E5FB0-8EDB-11D2-8136-00E02908E6D2}\LocalServer32
= <INSTALLDIR>\EC00.EXE /Embedded

HKEY_CLASSES_ROOT\CLSID\{990E5FB0-8EDB-11D2-8136-00E02908E6D2}\ProgID
= EC00.Composer.Application.1

HKEY_CLASSES_ROOT\CLSID\{990E5FB0-8EDB-11D2-8136-00E02908E6D2}\VersionIndependentProgID
= EC00.Composer.Application

HKEY_CLASSES_ROOT\CLSID\{990E5FB0-8EDB-11D2-8136-00E02908E6D2}\TypeLib
= {0C8F36F1-848E-11CE-9C08-02608CDA5EE3}

HKEY_CLASSES_ROOT\CLSID\{990E5FB0-8EDB-11D2-8136-00E02908E6D2}\Programmable

HKEY_CLASSES_ROOT\CLSID\{990E5FB0-8EDB-11D2-8136-00E02908E6D2}\NotInsertable
```

starodbc.reg

```
[HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBC.INI\ODBC Data Sources]
"stardb"="Microsoft Access Driver (*.mdb)"

[HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBC.INI\stardb]
"Driver"="C:\\WINNT\\System32\\odbcjt32.dll"
"DBQ"="C:\\USDANFC\\Star\\stardb.mdb"
"DriverId"=dword:00000019
"FIL"="MS Access;"
"SafeTransactions"=dword:00000000
"UID"=""

[HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBC.INI\stardb\Engines]

[HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBC.INI\stardb\Engines\Jet]
"ImplicitCommitSync"="Yes"
"MaxBufferSize"=dword:00000200
"PageTimeout"=dword:00000005
"Threads"=dword:00000003
"UserCommitSync"="Yes"
```

Help Registry

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\Help]
"STAR.hlp"="<INSTALLDIR>"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\Help]
"EMCP.hlp"="<INSTALLDIR>"
```

Help Registry

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\Help]
"PRMS.hlp"="<INSTALLDIR>"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\Help]
"EMCP.hlp"="<INSTALLDIR>"
```

wroaf.reg

```
HKEY_CLASSES_ROOT\TypeLib\{0C8F36F1-848E-11CE-9C08-02608CDA5EE3}
= COOL:Gen Application Interface Type Library

HKEY_CLASSES_ROOT\TypeLib\{0C8F36F1-848E-11CE-9C08-02608CDA5EE3}\5.1
= COOL:Gen Application Library

HKEY_CLASSES_ROOT\TypeLib\{0C8F36F1-848E-11CE-9C08-02608CDA5EE3}\5.1\0\win32
= d:\COOL\GEN\WROA0000.TLB

HKEY_CLASSES_ROOT\TypeLib\{0C8F36F1-848E-11CE-9C08-02608CDA5EE3}\5.1\HELPDIR
= d:\COOL\GEN\

HKEY_CLASSES_ROOT\TypeLib\{EBD084A1-E46C-11CE-8F94-0020AF9B5FED}
= COOL:Gen Functions Interface Type Library

HKEY_CLASSES_ROOT\TypeLib\{EBD084A1-E46C-11CE-8F94-0020AF9B5FED}\5.1
= COOL:Gen Functions Library

HKEY_CLASSES_ROOT\TypeLib\{EBD084A1-E46C-11CE-8F94-0020AF9B5FED}\5.1\0\win32
= d:\COOL\GEN\WROF0000.TLB

HKEY_CLASSES_ROOT\TypeLib\{EBD084A1-E46C-11CE-8F94-0020AF9B5FED}\5.1\HELPDIR
= d:\COOL\GEN\
```

FAQs

What System is STAR replacing?

STAR is replacing the Personal Computer Time and Attendance Remote Entry (PC-TARE) System. PC-TARE is a DOS application and does not work on many of the newer operating systems. STAR operates in Windows 95, 98, and NT environments. All of the functions available in PC-TARE, and more, are available in STAR.

How do I transfer my existing T&A data from PC-TARE into STAR?

STAR includes a conversion utility that enables you to translate the PC-TARE master data from existing records into a Header file that STAR can access. This means that the existing records you maintain for your group of employees may be imported and accessed immediately...no re-entry required. Conversions are available for PC-TARE versions 1.x and 2.0.

Do I still need Master and Transmit diskettes?

Master diskettes are not required in STAR. Previously, PC-TARE would only store the Master data to a floppy disk drive. STAR automatically stores all header and T&A information to a database that is installed with the software. You may specify an alternate file location on any accessible drive for storage of backup data. You may also save your transmit file to a floppy disk for transmission from a different PC.

How are backups handled in STAR?

STAR's backup utility is available from the System menu. You may back up T&A data, Tables, or both. For T&A data, you may backup one pay period, or several at once. Backups should be stored on your hard drive or a LAN drive that is backed up periodically. Consult your network or systems administrator for recommendation on where to save backup data.

Does STAR have a rollover feature for new pay periods?

STAR includes a rollover feature that enables you to create a new pay period of T&As for

your employees based on the previous pay period of T&A data. This reduces processing time by automatically updating all pay period specific information, including begin and end dates and leave accruals.

What if I forget my accounting code?

An Accounting Code table is available in STAR for you to access codes used by your organization. The codes in this table are updated by the agency's Application Administrator. You may also use stored accounting if appropriate. For more information on tables and accounting codes, see the online help and directives.

What can Administrators do with STAR?

Administrators are responsible for setting up authorized users in their organization. They establish valid T&A Contact Points and assign them to the responsible user. Administrators may also coordinate backup and restore functions, as well as update STAR tables and distribute STAR software.

Is STAR Y2K compliant?

Yes. Like all NFC Upgrade applications, STAR is Year 2000 (Y2K) compliant. For a complete discussion of NFC's Y2K readiness, consult the NFC Website at http://www.nfc.usda.gov/y2k/index.htm

Can STAR be loaded on a Local Area Network (LAN)?

The STAR program may be loaded to a LAN drive (server) by running the associated Setup file. However, the T&A data will be stored on the workstation's hard drive (local drive). For more information, consult the installation instructions in this guide.

System Maintenance

As systems grow and enhancements are requested, periodic updates may be provided by the NFC. When this happens, it is important to distinguish between the two types of updates: production fixes and new versions.

Production Fix vs. New Version

If NFC releases a production fix or patch to an existing version of an application, the new application install should be run to update system files already loaded.

If a new version is released, NFC will notify customers that they should obtain and install the new version by a certain date (usually two weeks from the date the version was released). Once installed, the new version is ready to be used on the date it becomes effective. This allows customers to install the new version prior to its effective date, and still use the older version until the effective date is reached.

Installing a Production Fix for an existing application client

Run the update installation file. This is done in the same manner as described under Installing the Software. Be sure to use the same setup type and destination location that was used when the original application was installed.

Upgrading to a New Version of an existing application client

Run the update installation file. This is done in the same manner as described under Installing the Software. When the old version has expired, remove it from the PC as described under "Removing an Application Client." (Note: When removing the client, take note of the Version number in the List Box title...make sure the version removed is the older version.)

Removing an Application

To remove all files that the individual application setup program loaded during installation and to delete the initial Registry entries created during the setup, use the following procedure:

- From the Windows Start menu, choose Settings > Control Panel.
- In the Control Panel dialog box, double-click Add/Remove ProgramS.
- In the list box in the Add/Remove Programs Properties dialog box, select the application to remove (e.g., "STAR").
- Click the Add/Remove button.
- In response to the confirmation message that appears, click Yes (or Yes To All).

Restoring STAR Data from a Backup

If you need to restore T&A or Tables data from a stored Backup file, use the following procedure:

- Using Windows/NT Explorer, open the Star Backup folder. The default location for this folder is
  C:\USDANFC\STAR\Backup.
- Select the backup you wish to restore. Backup files and their descriptions are:
  - STAR_TAYYYYMMDD (T&A data file)
  - ACCTGYYYYMMDD (Accounting Code table file)
  - CNTPTYYYYMMDD (T&A Contact Point table file)
  - LEAVEYYYYMMDD (Leave Code table file)
  - TCYYYYMMDD (Transaction Code table file)
  - ARCHIVE.TXT (archived data file)

  The last eight positions of the filename represent the 4-digit year, 2-digit month and
  2-digit day the file was generated.
- Click the Open button to run the backup file and restore the selected data.

Summary

So far, we've discussed the system requirements for operating NFC's Upgrade applications. This included hardware, software, telecommunications, security, download procedures, and installation procedures.

In the next section, we'll discuss how to troubleshoot common errors encountered when using STAR, PRMS and EMCP.

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Troubleshooting

Common Error Messages

As with any software, NFC's Upgrade applications provide error messages to notify you of system problems, provide you with additional information on a process, or indicate when action is required to resolve an issue. Those included here are for setup and initial operation of the STAR and PRMS applications only. For information on messages related to regular operation of these systems, consult the online help for each system.

When trying to open STAR, the following message appears:

`"The ODBC driver must support ODBC version 3.00 or greater.`
`ODBC Return Code: 0"`

This error means that the machine on which STAR was installed is using old ODBC drivers. The MDAC and/or DCOM9x setups should be run to update the drivers. Contact your Agency IT Personnel for more information.

Defects/Enhancements

The following items were addressed in the development and testing of these systems. These issues will not be implemented for the reasons provided:

- All Windows: Unable to maximize or expand the top window after using Tile or Cascade: Design of the application system permits the client to maximize only the main menu window.
  We do not anticipate changing this design as it would cause a complete redesign of all windows.

- All Windows: Unable to click "X" to close or exit: Design of the application system permits the client to exit all non-banner windows using the Close button only.
  We do not anticipate changing this design as it would cause a complete redesign of all windows.

Summary

This section discussed errors common to the application client, telecommunications, and all Upgrade applications.

The remaining sections will contain technical information targeted to help IT/IS personnel within your agency to setup, maintain, and troubleshoot these systems.

Goto Section: 1 2 3 4 5 6 7 8 9 10